

What is Claimed is:

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2 1. An insulating jacket structure of a stator of a direct current motor,
3 comprising:

4 a body, having a through hole; and

5 multiple extension plates, extended outward from the through hole of
6 the body in a radiating manner, each of the multiple extension plates having a
7 receiving recess whose cross-section is substantially inverted U-shaped, the
8 receiving recess of each of the multiple extension plates having two sides
9 having two distal ends each formed with a protruding locking snap.

10 2. The insulating jacket structure of a stator of a direct current motor
11 as claimed in claim 1, further comprising multiple outer annular plates
12 extended outward from the two sides of the receiving recess at the distal ends
13 of each of the multiple extension plates, and a gap being formed between any
14 two adjacent outer annular plates.

15 3. The insulating jacket structure of a stator of a direct current motor
16 as claimed in claim 1, wherein each of the multiple extension plates is provided
17 with a protruding plate opposite to the receiving recess.

18 4. The insulating jacket structure of a stator of a direct current motor
19 as claimed in claim 1, wherein each of the multiple extension plates has a first
20 end connected to the body, and a second end opposite to the first end and
21 having a width smaller than that of the first end.

22 5. An insulating jacket structure of a stator of a direct current motor,
23 comprising:

24 an insulating jacket body, having a through hole;

25 multiple extension plates, extended outward from the through hole of
26 the insulating jacket body in a radiating manner, each of the multiple extension
27 plates having a receiving recess whose cross-section is substantially inverted

1 U-shaped, the receiving recess of each of the multiple extension plates having
2 two sides having two distal ends each formed with a protruding locking snap;
3 multiple outer annular plates extended outward from the two sides of
4 the receiving recess at the distal ends of each of the multiple extension plates,
5 and a gap being formed between any two adjacent outer annular plates; and
6 a silicon steel plate assembly, laminated by multiple silicon steel
7 plates, and having a hub, multiple poles and multiple pole faces, each of the
8 poles of the silicon steel plate assembly received in the receiving recess of each
9 of the multiple extension plates of the insulating jacket, wherein the silicon
10 steel plate located at the lowermost layer of the silicon steel plate assembly is
11 snapped and locked by the locking snaps protruded from the two distal ends of
12 the receiving recess, the hub of the silicon steel plate assembly is located in the
13 through hole of the insulating jacket body, and each of the pole faces is located
14 outside of each of the multiple outer annular plates.

15 6. The insulating jacket structure of a stator of a direct current motor
16 as claimed in claim 5, wherein each of the multiple extension plates of the
17 insulating jacket has a first end connected to the body, and a second end
18 opposite to the first end and having a width smaller than that of the first end of
19 each of the multiple extension plates of the insulating jacket, and the pole of
20 the silicon steel plate assembly has a first end connected to the hub, and a
21 second end connected to the pole face and having a width smaller than that of
22 the first end of the pole of the silicon steel plate assembly.

23 7. The insulating jacket structure of a stator of a direct current motor
24 as claimed in claim 5, wherein each of the multiple extension plates is provided
25 with a protruding plate opposite to the receiving recess.